

162459

Page 1

Setup Start *NS1*

Stop *NS2*

Run Start *NR1*

Stop *NR2*

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 162459***162459***

Page 2

Tuesday, June 06, 2017 4:57:33 PM

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Cable Cutter System
Start Date: 6/6/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/14/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start ***NR1***
QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130*	Identify as per dwg & Stock Location: <i>Fg 102</i> Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001 Location: _____								
140 *140*	QC21- Final Inspection - Work Order Release	0.00							
QC Quality Control	Memo	0.10							

17/6/27

DAS
28
9-89

JUN 26 2017

DAS
21
9-89

JUN 26 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
										QC / QA Coordinator Approval															
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐											
OTHER : ☐																									

Picklist Print

Monday, June 05, 2017 4:53:54 PM

Page 245

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017**Required Date:** 6/14/2017**Start Qty: 1.00**

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
600.0129		Purchased	No			100	f	264.0000	8	8			DAS 6 9-89
600 0129 VHB TAPE 75935A651 DAS 28 9-89 ** JUN 21 2017 DAS 27 9-89													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				CCK096			264						
				m135867			48						
				m137700			216						
600.0990		Purchased	No			100	Each	24.0000	1	1			DAS 27 9-89
600 0990 Magnabond 6398, Part A Size 112 ml DAS 28 9-89 ** DAS 27 9-89													
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				PKG			24						
				M136586			1						
				M136862			1						
				M137073			9						
				M137495			12						
				M134249			1						
exp. 2/01/2018 1/1/2017													

Monday, June 05, 2017 4:53:54 PM

Shop Packet Print

Page 245

Picklist Print

Page 246

Monday, June 05, 2017 4:53:54 PM

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

100 Each

24.0000

1 1

600 0991

Magnabond 6398 Part B Size 112 ml

**

DAS
27
9-89

DAS
28
9-89

exp. 2/01/2018

DAS
28
89

Location

Loc Qty

Loc Code

PKG

24

m136586

2

m136862

1

m137073

9

m137495

12

m134249

0

1/1/2017

600.1012

Purchased

No

100

Each

31.0000

1 1

600 1012

Sealant PR1425B2 (#654 sem)

**

JUN 20 2017

DAS DAS
6 27
9-89 9-89

exp. 12/2017

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

31

m136838

1

m137321

2

m137371

14

m137699

14

600.1013

Purchased

No

100

Each

90.0000

5 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

exp date
2017/12/8

Location

Loc Qty

Loc Code

CCK096

90

m136345

15

m137150

25

m137500

50

Monday, June 05, 2017 4:53:54 PM

Shop Packet Print

Page 246

Picklist Print

Page 247

Monday, June 05, 2017 4:53:54 PM

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.2910 Manufactured No

100 Each

6.0000

1 1

**

DAS
6
9-89

DAS
27
9-89

646 2910
Deflector

JUN 20 2017

Location

Loc Qty

Loc Code

CCK050

6

155356

6

646.3001 Manufactured No

100 Each

2.0000

1 1

**

DAS
6
9-89

DAS
27
9-89

646 3001
Lower Cable Cutter Assembly

JUN 20 2017

Location

Loc Qty

Loc Code

cck018

2

160179

2

646.3110 Manufactured No

100 Each

0.0000

1 1

**

JUN 21 2017
DAS
6
9-89

DAS
27
9-89

646 3110
Channel

646.3210

646 3210
Support

Manufactured No

100 Each

8.0000

1 1

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

8

155378

2

157802

6

646.3301 Manufactured No

100 Each

7.0000

1 1

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

646 3301
Upper Cutter Assembly

Location

Loc Qty

Loc Code

cck018

7

159679

7

4/10/2018

DAS
28
9-89

Monday, June 05, 2017 4:53:54 PM

Shop Packet Print

Page 247

Picklist Print

Monday, June 05, 2017 4:53:54 PM

Page 248

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.3510 Manufactured No

100 Each 5.0000

646 3510

Strut

**

JUN 20 2017

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

cck104

5

156767

5

646.3511 Manufactured No

100 Each 0.0000

646 3511

Strut

**

(37789)

JUN 20 2017

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

cck104

11

156880

11

646.3610 Manufactured No

100 Each 11.0000

646 3610

Filler

**

JUN 21 2017

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

cck104

11

156880

11

646.3710 Manufactured No

100 Each 15.0000

646 3710

Doubler

**

JUN 20 2017

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK006

15

152594

15

646.3711 Manufactured No

100 Each 4.0000

646 3711

Clip

**

JUN 21 2017

68-6

DAS

6

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

cck104

4

156840

4

Picklist Print

Monday, June 05, 2017 4:53:54 PM

Page 249

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.3712 Manufactured No

100 Each

6.0000

1 1

646 3712

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

6

156884

6

**

JUN 21 2017

DAS

6

9-89

DAS

27

9-89

646.3713 Manufactured No

100 Each

6.0000

1 1

646 3713

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

6

156776

6

**

JUN 20 2017

DAS

6

9-89

DAS

27

9-89

646.3714 Manufactured No

100 Each

6.0000

1 1

646 3714

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

6

156761

6

**

JUN 20 2017

DAS

6

9-89

DAS

27

9-89

646.3715 Manufactured No

100 Each

0.0000

2 2

646 3715

Strut Doubler

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

5

156773

5

**

159860 JUN 21 2017

DAS

6

9-89

DAS

27

9-89

646.3716 Manufactured No

100 Each

5.0000

1 1

646 3716

Gauge Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

5

156773

5

**

JUN 21 2017

DAS

6

9-89

DAS

27

9-89

Monday, June 05, 2017 4:53:54 PM

Shop Packet Print

Page 249

Picklist Print

Monday, June 05, 2017 4:53:54 PM

Page 250

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.3717 Manufactured No

100 Each 1.0000 1 1

646 3717

Doubler

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

1

155481

1

15774

646.3718 Manufactured No

100 Each 24.0000 2 2

646 3718

Custom Washer

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

24

159350

24

2

646.3719 Manufactured No

100 Each 27.0000 2 2

646 3719

Doubler

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

27

156810

2

159348

25

2

646.3810 Manufactured No

100 Each 2.0000 2 2

646 3810

Bracket

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

2

154964

2

160379

Picklist Print

Monday, June 05, 2017 4:53:54 PM

Page 251

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.3811 Manufactured No

100 Each

2.0000

1 1

DAS
6
9-89

JUN 2 1 2017

DAS
27
9-89

646 3811

Radius Block

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

2

156212

2

760090

646.3812 Manufactured No

100 Each

5.0000

2 2

DAS
6
9-89

JUN 2 1 2017

DAS
27
9-89

646 3812

Gusset Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

5

158489

5

646.3813 Manufactured No

100 Each

7.0000

1 1

DAS
6
9-89

JUN 2 1 2017

DAS
27
9-89

646 3813

AS350 Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

7

156801

2

157787

5

646.3910 Manufactured No

100 Each

0.0000

4 4

DAS
6
9-89

JUN 2 1 2017

DAS
27
9-89

646 3910

Shim

DAS
28
9-89

646.3911 Manufactured No

100 Each

5.0000

1 1

DAS
6
9-89

JUN 2 1 2017

DAS
27
9-89

646 3911

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

5

126229

5

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 251

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 252

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

646.3912 Manufactured No

100 Each 39.0000 4 4

DAS JUN 21 2017 DAS 27
6 9-89

646 3912

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

39

159357

19

159793

20

646.3913 Manufactured No

100 Each 44.0000 1 1

DAS JUN 21 2017 DAS 27
6 9-89

646 3913

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

44

126060

44

646.9410 Manufactured No

100 Each 53.0000 1 1

DAS JUN 21 2017 DAS 27
6 9-89

646 9410

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck011

53

140671

53

647.0112 Manufactured No

100 Each 35.0000 2 2

DAS JUN 21 2017 DAS 27
6 9-89

647 0112

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

35

159844

35

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 253

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

647.7703 Manufactured No

100 Each 5.0000 2 2

647 7703

Strut Assembly

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK114

5

159680

5

160493

650.9201 Manufactured No

100 Each 24.0000 2 2

650 9201

Eyelet Bracket Assembly

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck127

24

156828

14

157798

10

2

AN3-11A Purchased No

100 Each 220.0000 10 10

AN3-11A

Bolt

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

120

153855

120

70

AN3-12A Purchased No

100 Each 183.0000 2 2

AN3-12A

Bolt

**

JUN 21 2017

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST349

183

153854

183

2

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 254

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-13A Purchased No

100 Each

26.0000

1 1

DAS

AN3-13A

Bolt

**

6

9-89

JUN 20 2017

DAS

27

9-89

Location

Loc Qty

Loc Code

GA

14

m127070

14

ST349

12

153845

12

AN316C4R

Purchased No

100 Each

7.0000

2 2

AN316C4R

Nut, Jam

**

DAS

6

9-89

JUN 20 2017

DAS

27

9-89

Location

Loc Qty

Loc Code

ST331

7

153850

7

AN3-3A

Purchased No

100 Each

90.0000

4 4

AN3-3A

Bolt

**

DAS

6

9-89

JUN 20 2017

DAS

27

9-89

Location

Loc Qty

Loc Code

ST350

90

m137391

8

m137597

82

AN3-4A

Purchased No

100 Each

341.0000

10 10

AN3-4A

Bolt

**

DAS

6

9-89

JUN 20 2017

DAS

27

9-89

Location

Loc Qty

Loc Code

ST350

341

m137478

341

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 254

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 25

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

100

Each

211.0000

2 2

AN3-5A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

211

m136986

211

AN3-6A

Purchased

No

100

Each

167.0000

2 2

AN3-6A

Bolt

Location

Loc Qty

Loc Code

ST350

167

m137412

167

AN44-5A

Purchased

No

100

Each

17.0000

2 2

AN44-5A

Eyebolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST339

17

m137075

5

m137507

12

AN4C7A

Purchased

No

100

Each

93.0000

2 2

AN4C7A

BOLT

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

75

m137361

75

ST345

18

m136295

18

DAS
28
9-89

DAS
6
9-89 JUN 20 2017

DAS
6
9-89 JUN 20 2017

DAS
6
9-89 JUN 20 2017

DAS
6
9-89 JUN 20 2017

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 256

Work-Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

AN665-34R Purchased No

100 Each 12.0000 2 2

AN665-34R

Clevis

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

12

m137361

2

m137587

10

CCR264SS3-02 Purchased No

100 Each 2.0000 36 36

CCR264SS3-02

Cherry Rivet

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

2

M137361

2

CR3213-5-3 Purchased No

100 Each 158.0000 14 14

CR3213-5-3

Cherry Rivet

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

158

m136851

2

m137320

100

m137391

56

MS20426AD5-7 Purchased No

100 Each 1,388.000 2 2

MS20426AD5-7

RIVET

**

JUN 20 2017

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

703

153848

703

ST311

685

M133922

685

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 256

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 25

13

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-5.5

Purchased

No

100

Each

638.0000

8 8

MS20470AD5-5.5

Rivet

**

JUN 20 2017

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST309

638

m134063

638

MS20470AD5-6

Purchased

No

100

Each

528.0000

8 8

MS20470AD5-6

RIVET

**

JUN 20 2017

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST309

528

124089

528

MS20470AD5-7

Purchased

No

100

Each

344.0000

3 3

MS20470AD5-7

Rivet

**

JUN 20 2017

DAS 6 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

ST309

344

123425

344

MS21042-08

MS21042L08

Purchased

No

100

Each

0.0000

2 2

MS21042-08

USE MS21042L08

**

137371

JUN 20 2017

DAS 6 9-89

DAS 27 9-89

MS21042-3

MS21042L3

Purchased

No

100

Each

0.0000

2 2

MS21042-3

Nut

**

137680

JUN 20 2017

DAS 6 9-89

DAS 27 9-89

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 258

Work-Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

100

Each

1,989.000

61

61

MS21042L3

Nut

**

JUN 20 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

434

m134360

102

M136665

332

OVER007

1000

m134360

0

m137680

1000

ST303

476

m137321

4

m137495

472

61

DAS
28
9-89

MS21042L4

Purchased

No

100

Each

3,041.000

2

2

MS21042L4

Nut

**

JUN 20 2017

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

2400

m137402

400

m137544

1000

m137680

1000

ST303

580

m137371

580

2

01

DAS
28
9-89

DAS
6
9-89

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 259

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

100

Each

161.0000

18

18

MS21047-3

Nut Plate

**

DAS

DAS

27

9-89

JUN 20 2017
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

161

m137075

11

m137459

150

MS24693-C278

Purchased

No

100

Each

120.0000

5

5

MS24693-C278

Screw

**

DAS

DAS

27

9-89

JUN 20 2017
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST287

120

m136554

20

m137680

100

MS24694-S51

Purchased

No

100

Each

270.0000

5

5

MS24694-S51

Screw

**

DAS

DAS

27

9-89

JUN 20 2017
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

270

m135442

20

m136866

250

MS24694-S54

Purchased

No

100

Each

61.0000

2

2

MS24694-S54

SCREW

**

DAS

DAS

27

9-89

JUN 20 2017
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

61

153846

61

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 260

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S55

Purchased

No

100

Each

226.0000

3 3

MS24694-S55

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST283

226

153847

226

100

Each

275.0000

2 2

MS27039-08-13

Purchased

No

MS27039-08-13

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST278

275

153849

275

100

Each

485.0000

2 2

MS27039-1-10

Purchased

No

MS27039-1-10

SCREW

Location

Loc Qty

Loc Code

GA

15

m129541

15

over006

300

m137597

300

ST280

170

m137164

170

MS27039-1-12

Purchased

No

MS27039-1-12

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

51

m136537

1

m137320

50

100

Each

51.0000

6 6

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 261

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-16

Purchased

No

100

Each

73.0000

24

24

MS27039-1-16

Screw

**

JUN 20 2017

DAS

6

DAS

27

9-89

9-89

Location

Loc Qty

Loc Code

over006

50

m137061

50

ST280

23

m137320

23

137736

MS27039-1-19

Purchased

No

100

Each

369.0000

22

22

MS27039-1-19

Screw

**

JUN 20 2017

DAS

6

DAS

27

9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

289

m137361

289

22

MS27039-1-20

Purchased

No

100

Each

65.0000

2

2

MS27039-1-20

Screw

**

JUN 20 2017

DAS

6

DAS

27

9-89

Location

Loc Qty

Loc Code

ST280

65

m136554

65

2

MS27039-1-21

Purchased

No

100

Each

135.0000

4

4

MS27039-1-21

Screw

**

JUN 20 2017

DAS

6

DAS

27

9-89

Location

Loc Qty

Loc Code

ST280

135

m127904

135

4

Monday, June 05, 2017 4:53:55 PM

Shop Packet Print

Page 261

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 262

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

100

Each

1,507.000

144

144

NAS1149F0332P

Washer

**

DAS
6
9-89

JUN 20 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST262

1232

m137075

13

m137412

1219

NAS1149F0363P

Purchased

No

100

Each

244.0000

2

2

NAS1149F0363P

WASHER

**

DAS
6
9-89

JUN 20 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST262

244

124555

44

m137544

200

NAS1149F0432P

Purchased

No

100

Each

1,415.000

4

4

NAS1149F0432P

WASHER

**

DAS
6
9-89

JUN 20 2017

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M137412

1000

ST262

415

M137361

415

Picklist Print

Monday, June 05, 2017 4:53:55 PM

Page 263

Work Order ID: 162459

162459

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/6/2017

Required Date: 6/14/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

100

Each

1,771.000

4

4

NAS1149FN832P

Washer

**

JUN 20 2017

DAS
27
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST263

1413

M137412

1413

DAS
28
9-89

4



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: REVISED F/N 12.

ECR:

N/A

ACTION ITEM:

1. N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 162459

20170602

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AERIAL INDUSTRIES, INC. (AERIAL). ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF AERIAL INDUSTRIES, INC. IS PROHIBITED.

NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES: USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

	5		5	78	601.3875	SCREW			
	1		1	77	646.9410	SHIM			
			4	76	601.2764	WASHER			
			2	75	601.2973	LOCKNUT			
			2	74	601.2988	SCREW			
			2	73	601.2943	LOCKNUT			
			2	72	601.3128	NUT			
			2	71	601.3209	LOCKNUT			
			4	70	601.2636	WASHER			
			2	69	601.2669	BOLT			
			2	68	601.3119	CLEVIS			
			2	67	601.3121	EYE BOLT			
			2	66	650.9201	EYE BRACKET ASSY			
	REF	REF		65	647.5701	GPS MOUNT KIT			
				64	601.3151	WASHER			
			2		63	601.2911	SCREW		
				62	601.2637	SCREW			
	2			61	601.2763	BOLT			
			1	60	646.3913	SHIM			
			4	59	646.3912	SHIM			
			1	58	646.3911	SHIM			
			4	57	646.3910	SHIM			
			5	56	600.1013	PRIMER			
			8 FT	55	600.0129	VHB TAPE			
			1	54	600.1012	SEALANT			
			1	53	600.0991	MAGNOROND 6398 PART B			
			1	52	600.0990	MAGNOROND 6398 PART A			
	6		10	51	601.2826	BOLT			
				50	646.3814	WIPER BRACKET			
			2	49	601.2910	SCREW			
	2			48	601.1365	SCREW			
	2			47	646.3719	DOUBLER			
			2	46	646.3718	CUSTOM WASHER			
			1	45	646.3717	DOUBLER			
			22	44	601.1948	SCREW			
			2	43	601.1952	SCREW			
			4	42	601.1956	SCREW			

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 0261, 0261, 0271 & 0274S	07/08/2010	P. BRAYO
B	INCORPORATED ECN 0264, 0267 & 04731	11/04/2014	P. BRAYO
C	INCORPORATED ECN 0268	07/09/2014	P. BRAYO

		2		2	41	601.2829	SCREW	MS274694554		
		2		2	40	601.2831	RIVET	MS20426ADS-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2	2		2	37	646.3715	STRUT DOUBLER			
		2		2	36	601.2824	BOLT	AN3-5A		
12	36			36	35	601.2277	RIVET	CCP24MS3-09		
6	18			18	34	600.0795	NUTPLATE	MS27047ADS-7		
3	3			3	33	601.2565	RIVET			
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-3A		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS20470ADS-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1	1		1	23	646.3712	CLIP			
	1	1		1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS20470ADS-5		
14	14			14	20	601.2020	RIVET	CR3218-5-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-4A		
	1	1	1	1	18	601.2827	BOLT	AN3-13A		
	5	5	5	5	17	601.2912	SCREW	MS24694551		
1	1			1	16	646.3713	GUSSET			
1	1			1	15	646.3210	SUPPORT			
	1			1	14	646.3710	DOUBLER			
	1	1		1	13	646.3110	CHANNEL			
14	10	8	53	6	61	601.1624	LOCKNUT	MS27042L3		
16	32	18	120	16	144	601.1607	WASHER	NAS11490303P		
				1	10	646.3410	LH WIPER DEFLECTOR			
				1	9	646.3411	RH WIPER DEFLECTOR			
		2		2	8	647.7703	STRUT ASSY			
		2		2	7	647.0112	STRUT BRACKET			
	1	1		1	6	646.3511	STRUT			
	1	1		1	5	646.3510	STRUT			
2		2	4	2	4	646.3810	BRACKET			
		1		1	3	646.2910	DEFLECTOR			
	1	1		1	2	646.3001	LOWER CUTTER ASSY			
		1		1	1	646.3301	UPPER CUTTER ASSY			
X						646.4006	LOWER CUTTER FIXED PROVISIONS			
	X					646.4005	LOWER CUTTER REMOVABLE PROVISIONS			
		X				646.4004	FIXED PROVISIONS R1			
			X			646.4003	CABLE CUTTERS XE WITHOUT FIXED PROVISIONS			
				X		646.4002	ASS350 WIPER DEFLECTOR KIT			
					X	646.4001	ASS350 CABLE CUTTERS KIT			
4006	400S	400A	4003	4002	4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE: 08/22/08 DESIGNED BY: P. BRAYO DRAWING APPROVAL: P. BRAYO DATE: 08/22/08 DRAWING NO.: 082208	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS: .001 2 PLACE DECIMALS: .005 ANGLES: .5°		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-6300 ASS350 CABLE CUTTERS KIT SCALE: NONE SHEET 1 OF 5	

DQA: _____ Date: _____



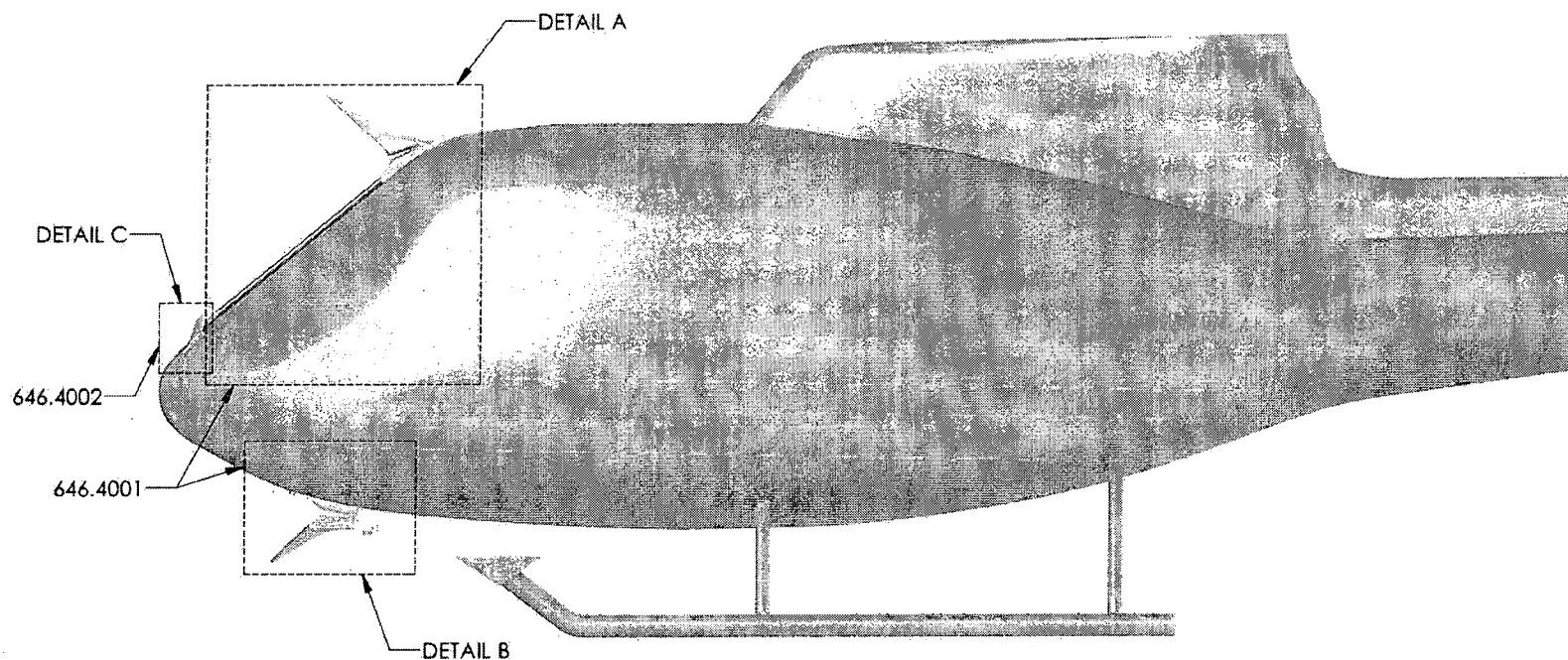
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DIA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS
WRITTEN PERMISSION OF APICAL INDUSTRIES DIA DART AEROSPACE IS PROHIBITED.



ORIGINAL DATE 06-07-06		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300 AEROSPACE APICAL INDUSTRIES, INC. DIA DART AEROSPACE	
DRAWN BY S. HURF	CHECKED P. BRAVO		
DRAWING APPROVAL P. BRAVO 06-07-06		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SHEET B	CADR CODE 07M26 DWG. NO. 646.4000 SCALE NONE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ± .5°		REV. C	SHEET 2 OF 5

DQA: _____ Date: _____



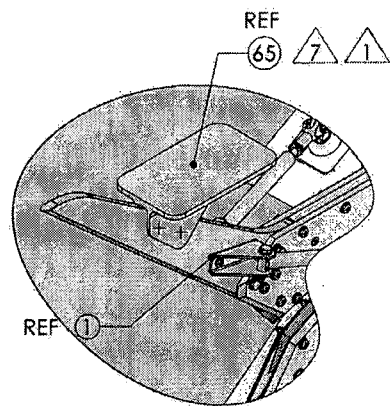
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

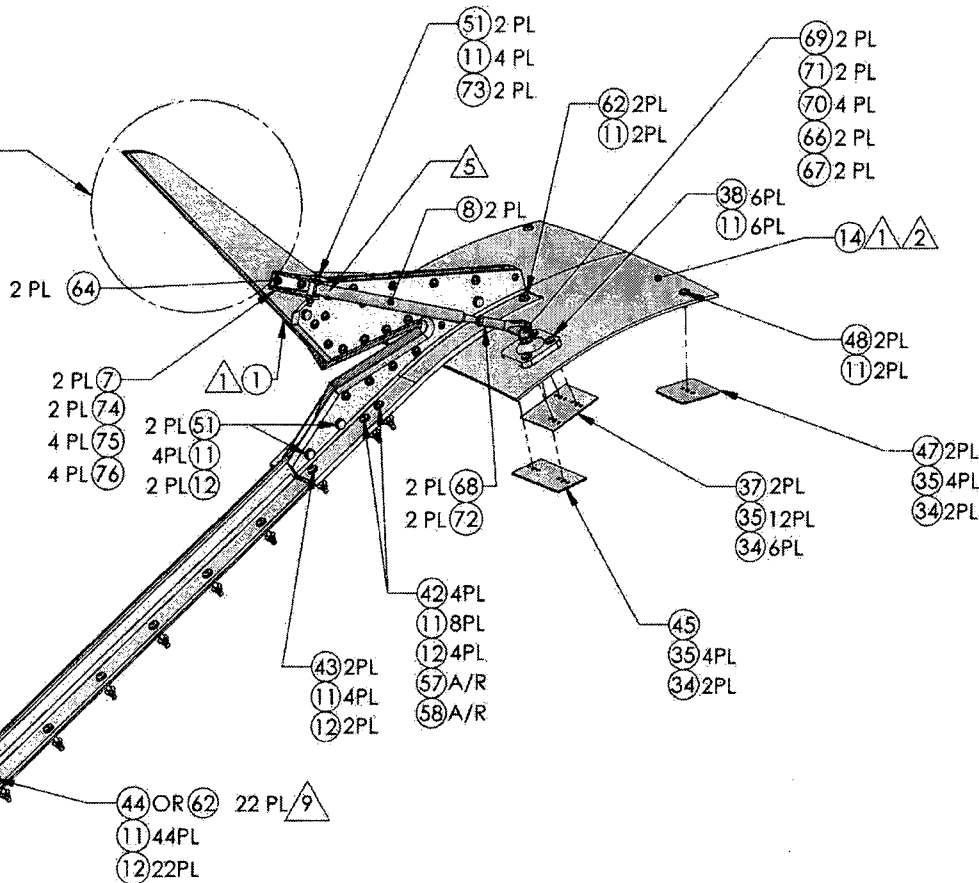
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D



DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE (MM-DD-YY)	08-27-08	DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-3500 APICAL INDUSTRIES INC. DBA DART AEROSPACE
DRAWN BY	S. HUFF	
DRAWING APPROVAL	P. BRAVO	
CONTRACT NO.	08-02-08	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACES DECIMALS ±.01 ALL OTHERS ±.005		AS350 CABLE CUTTERS KIT SIZE C (44-0000) QTY. NO. 646.4000 SCALE NONE SHEET 3 OF 5

DQA: _____ Date: _____



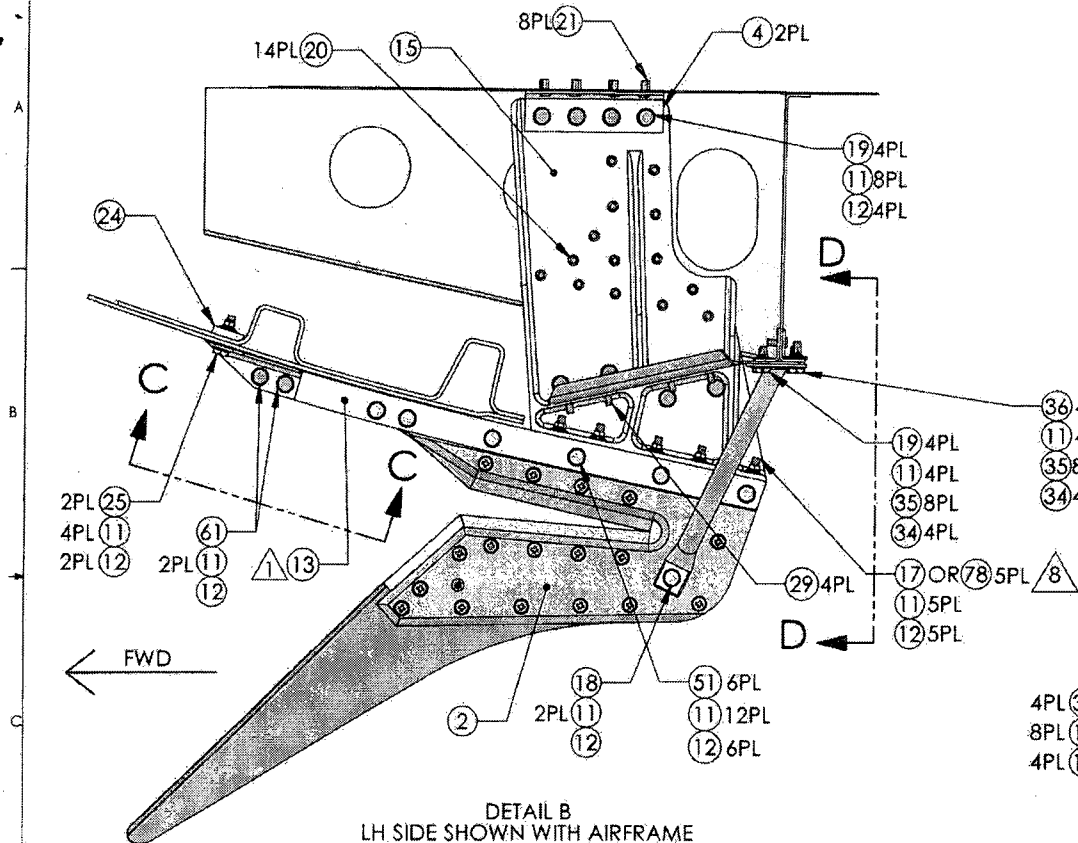
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

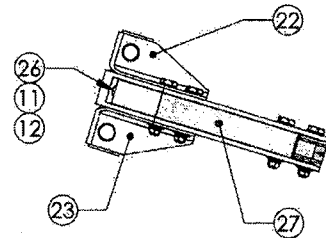
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

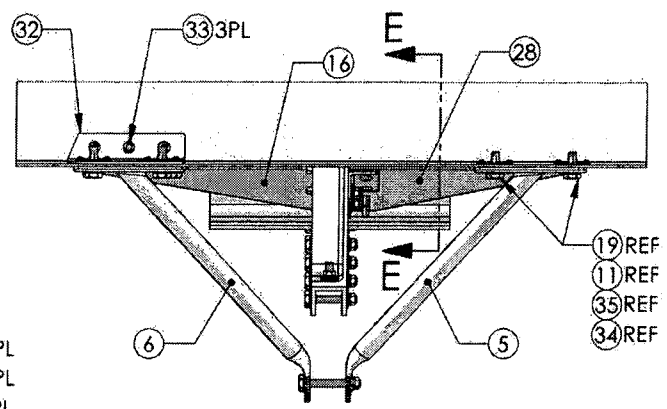
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF APICAL INDUSTRIES, INC. IS PROHIBITED.



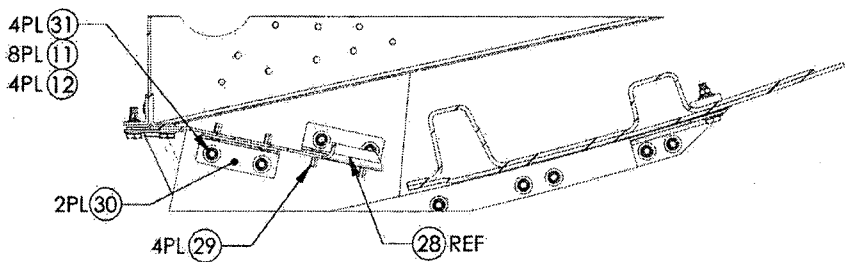
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

ORIGINAL DATE 08-27-08		DART 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-6300	
DRAWN BY S. HURT	DESIGNED BY P. BOVARD	APICAL INDUSTRIES, INC. DRG. DART AEROSPACE	
DRAWING APPROVAL T. BRADY 08-27-08		AS350 CABLE CUTTERS KIT	
CONTRACT NO.		SHEET NO. 8	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.3°		DATE 07/26	DRG. NO. 646.4000
SCALE NONE		SHEET 4 OF 5	

DQA: _____ Date: _____



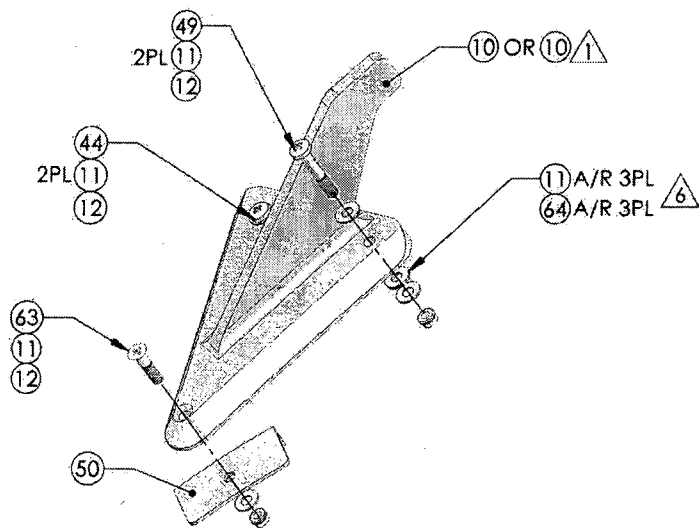
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : ☐						
Misidentified ☐	☐	Past Due ☐							

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE: 05-27-08		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 724-5300 APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWN BY: S. HURF	CHECKED: P. BRAVO		
DRAWING APPROVAL: P. BRAVO 08-27-08		AS350 CABLE CUTTERS KIT PART CODE: 8 07M26 SCALE: NONE	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TO FRACTIONS 2 PLACE DECIMALS 3 PLACE DECIMALS ANGLES: 1/2		SHEET NO: 646.4000 REV: C SHEET 5 OF 5	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :						
Misidentified ☐	☐	Past Due ☐							

Work Order ID 162459

Tuesday, June 06, 2017 4:57:33 PM

162459

Page 1

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutter System
 Start Date: 6/6/2017 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/14/2017 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: *MA* Date: *20170607* Tooling: Date:
 QC: Date: SPC (Y/N): Date:
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

JUN 16 2017

DAE
30
9-80

JUN 19 2017

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02180LA

This Certificate issued to Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, CA 92081

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.*
*Certification basis is set forth in Type Certificate Data Sheet H9EU.

Original Product Type Certificate Number: H9EU

Maker: Eurocopter France

Model: AS350 C, D, D1, B, B1, B2, BA, B3

Description of Type Design Change: Installation of a Cable Cutter Kit in accordance with FAA approved Apical Master Document List, MD350-61, Revision A, dated November 25, 2008, or later FAA approved revision.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted aircraft model series only. This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA350-61, Revision N/C, dated November 20, 2008, or later FAA accepted revision. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 21, 2008

Date received: August 7, 2014

Date of issuance: December 16, 2008

Date amended:

By direction of the Administrator



Haifa Haj-Eid
(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AFICAL INDUSTRIES DBA DART AIRSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF AFICAL INDUSTRIES DBA DART AIRSPACE IS PROHIBITED.

NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

5	5	5	78	601.3875	SCREW	MS27039-1-15
1	1	1	77	646.9410	SHIM	MS27039-1-10
	4	4	76	601.2764	WASHER	MS27039-1-10
	2	2	75	601.2973	LOCKNUT	MS27039-1-10
	2	2	74	601.2988	SCREW	MS27039-1-10
	2	2	73	601.2943	LOCKNUT	MS27039-1-10
	2	2	72	601.3128	NUT	MS27039-1-10
	2	2	71	601.3209	LOCKNUT	MS27039-1-10
	4	4	70	601.2636	WASHER	MS27039-1-10
	2	2	69	601.2669	BOLT	MS27039-1-10
	2	2	68	601.3119	CLEVIS	MS27039-1-10
	2	2	67	601.3121	EYE BOLT	MS27039-1-10
	2	2	66	650.9201	EYE BRACKET ASSY	MS27039-1-10
REF	REF	REF	65	647.5701	GPS MOUNT KIT	MS27039-1-10
			64	601.3151	WASHER	MS27039-1-10
	2	2	63	601.2971	SCREW	MS27039-1-10
	24	24	62	601.2637	SCREW	MS27039-1-10
2	2	2	61	601.2763	BOLT	MS27039-1-10
	1	1	60	646.3913	SHIM	MS27039-1-10
	4	4	59	646.3912	SHIM	MS27039-1-10
	1	1	58	646.3911	SHIM	MS27039-1-10
	4	4	57	646.3910	SHIM	MS27039-1-10
	5	5	56	600.1013	PRIMER	MS27039-1-10
8 FT	8 FT	8 FT	55	600.0129	VHB TAPE	MS27039-1-10
1	1	1	54	600.1012	SEALANT	MS27039-1-10
	1	1	53	600.0991	MAGNEBOND GPR PART B	MS27039-1-10
	1	1	52	600.0990	MAGNEBOND GPR PART A	MS27039-1-10
6	10	10	51	601.2826	BOLT	MS27039-1-10
		2	50	646.3814	WIPER BRACKET	MS27039-1-10
		2	49	601.2910	SCREW	MS27039-1-10
	2	2	48	601.1365	SCREW	MS27039-1-10
	2	2	47	646.3719	DOUBLER	MS27039-1-10
		2	46	646.3718	CUSTOM WASHER	MS27039-1-10
	1	1	45	646.3717	DOUBLER	MS27039-1-10
	22	2	44	601.1948	SCREW	MS27039-1-10
	2	2	43	601.1952	SCREW	MS27039-1-10
	4	4	42	601.1956	SCREW	MS27039-1-10
QTY	QTY	QTY	QTY	QTY	QTY	QTY
4006	4005	4004	4003	4002	4001	4000
FIND #	PART #	DESCRIPTION	MATL	SPEC.		

REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 02111, 02112 & 02113	02/08/2016	P. BRAYO
B	INCORPORATED ECN 02044, 02045 & 04731	11/04/2014	P. BRAYO
C	INCORPORATED ECN 05058	09/02/2015	P. BRAYO

2	2	41	601.2829	SCREW	MS27039-1-12
	2	40	601.2831	RIVET	MS27039-1-12
	1	39	646.3716	GAUGE BRACKET	
	6	38	601.1953	SCREW	MS27039-1-12
	2	37	646.3715	STRUT DOUBLER	
2	2	36	601.2824	BOLT	AN3-5A
12	36	35	601.2277	RIVET	CC844MS-02
6	18	34	600.0795	NUTPLATE	MS27039-1-12
3	3	33	601.2565	RIVET	MS270470AD5-7
1	1	32	646.3813	STRUT BRACKET	
4	4	31	601.2822	BOLT	AN3-5A
2	2	30	646.3812	GUSSET BRACKET	
8	8	29	601.2564	RIVET	MS270470AD5-6
1	1	28	646.3714	GUSSET	
	1	27	646.3610	FILLER	
	3	26	601.2830	SCREW	MS270470AD5-5
	2	25	601.2825	BOLT	AN3-5A
	1	24	646.3811	RADIUS BLOCK	
	1	23	646.3712	CLIP	
	1	22	646.3711	CLIP	
8	8	21	601.2832	RIVET	MS270470AD5-5
14	14	20	601.2020	RIVET	CC831-5-5-3
4	6	19	601.2823	BOLT	AN3-5A
	1	18	601.2827	BOLT	AN3-5A
	5	17	601.2912	SCREW	MS270470AD5-1
1	1	16	646.3713	GUSSET	
1	1	15	646.3210	SUPPORT	
	1	14	646.3710	DOUBLER	
	1	13	646.3110	CHANNEL	
14	10	12	601.1624	LOCKNUT	MS270470AD5-3
16	32	11	601.1607	WASHER	MS270470AD5-3
		10	646.3410	LH WIPER DEFLECTOR	
		9	646.3411	RH WIPER DEFLECTOR	
	2	8	647.7703	STRUT ASSY	
	2	7	647.0112	STRUT BRACKET	
	1	6	646.3511	STRUT	
	1	5	646.3510	STRUT	
2	2	4	646.3810	BRACKET	
		3	646.7910	DEFLECTOR	
	1	2	646.3001	LOWER CUTTER ASSY	
	1	1	646.3301	UPPER CUTTER ASSY	
X			646.4006	LOWER CUTTER FIXED PROVISIONS KIT	
	X		646.4005	LOWER CUTTER REMOVABLE PROVISIONS KIT	
			646.4004	FIXED PROVISIONS KIT	
			646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS	
			646.4002	AS350 WIPER DEFLECTOR KIT	
			646.4001	AS350 CABLE CUTTERS KIT	
4006	4005	4004	4003	4002	4001
QTY	QTY	QTY	QTY	QTY	QTY
4006	4005	4004	4003	4002	4001
FIND #	PART #	DESCRIPTION	MATL	SPEC.	

ORIGINAL DATE: 02/08/2016
DRAWN BY: P. BRAYO
CHECKED BY: P. BRAYO
APPROVED BY: P. BRAYO
DATE: 02/08/2016

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
1 PLACE DECIMALS ±.010
2 PLACE DECIMALS ±.005
3 HOLES ±.005

SCALE: NONE

SHEET 1 OF 5

3030 ENTERPRISE CT., SUITE A
VISTA, CA 92081
(760)-724-5300

AS350 CABLE CUTTERS KIT

646.4000